

# MIT Delta Upsilon suspended until 2016

*DU International dissolves chapter,  
suspension to last until spring 2016*

By Austin Hess and Leon Lin  
EDITORS

The Delta Upsilon International Fraternity has suspended its MIT chapter until spring 2016, MIT announced Wednesday. MIT has also withdrawn recognition of the fraternity's chapter as an independent living group.

The suspension, effective immediately, follows "an investigation into allegations of inappropriate behavior during unsanctioned events over IAP," according to the press release from MIT's Division of Student Life.

The president of the Technology Chapter did not return *The Tech's* calls. MIT's Division of Student Life was unable to give more details about the suspension before press time.

"We support DU International's decision, and are disappointed in the choices and circumstances that led to the suspension of Technology Chapter," Chris Colombo, the dean for student life, said in the Wednesday statement. "If DU International seeks to recolonize after the suspension, we would be open to supporting their efforts provided they meet certain conditions."

Justin Kirk, the executive director of

DU International, said in a statement Thursday: "The actions and decisions of these men were incongruent with the mission and values of Delta Upsilon Fraternity. Our mission is to build better men through our four founding principles of Friendship, Character, Culture, and Justice. Unfortunately, this was not happening in our Technology Chapter."

DU International's investigation followed a preliminary investigation by MIT, which was prompted by an allegation reported to DSL, according to Haldun Anil '15, the president of MIT's Interfraternity Council.

Members of the Technology Chapter had met with investigators from DU International and were aware of the investigation, Anil said.

"It was the national chapter making the decision, then informing MIT, and then MIT supporting it, from the emails I saw," Anil added. "The IFC was never involved in the judicial processes."

Anil said that according to an email he had received, it was DSL's policy to respect the decisions of a fraternity's international organization.

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## Collier remembrance



LONDON Y. CARTER—THE TECH

Hackers lit up the Green Building with a ribbon on Tuesday night, in honor of the 1-year anniversary of the Boston Marathon bombings and the death of MIT Officer Sean Collier.

# 'MIT Strong' team to race in marathon

*40 runners try to raise  
\$142,600 for the Sean  
Collier Memorial Fund*

By Tushar Kamath  
NEWS EDITOR

MIT has backed its own team, MIT Strong, to run the 2014 Boston Marathon in memory of MIT Police Officer Sean Collier, who died in violence following bombings at the 2013 marathon. The MIT Strong team is made up of 40 individuals, both affiliated and unaffiliated with MIT. A diverse group composed of students, faculty members, alumni, and facilities workers will be running the marathon on the team.

"We really only started with 25 people who got numbers [qualifying spots] from MIT, from the BAA [Boston Athletic Association]. And other people joined the team when they got numbers from another source," stated Joseph M. Azzarelli G, a graduate student in the chemistry department at MIT and member of the team. According to member Sally A. Miller '16, "Basically, you had another 15 people join on who were other people that thought, 'Hey this means something to me.'"

Along with running the marathon itself, each team member of MIT Strong was suggested to raise \$1,000 for the Sean A. Collier Memorial Fund.

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# Student groups to beta test new controlled value card program

*New value cards hope to solve students' 'buying problem'*

By William Navarre  
STAFF REPORTER

The Undergraduate Association's Controlled Value Card committee is beginning beta testing for its controlled value cards program this semester.

By issuing the value cards, which are pre-paid credit cards

that charge against student groups' accounts, the committee hopes to solve what Assistant Director of Student Activities and Finance Colin M. Codner calls the 'buying problem.'

"Currently, groups have to front a bunch of money" for large purchases, Codner told *The Tech*. He explained that while groups

have other options, such as asking him to charge the expense to his procurement card, those options are not always feasible, and student groups often resort to fronting the money and filling out a request for payment (RFP). With the CVCs, "students [in stu-

CVC, Page 8

# Thursday elections bring in a new MIT Dormitory Council

*McCormick resident becomes DormCon president*

By Patricia Dominguez  
and Bruno B.F. Faviero  
STAFF REPORTERS

At last night's MIT Dormitory Council (DormCon) election meeting, McCormick Hall President Chloe A. Orphanides '15 was elected DormCon president, and MacGregor House president Walter Menendez '15 was elected DormCon vice president. They will be replacing outgoing president Eli H. Ross '14 and vice president Katherine J. Silvestre '14.

The other officers-elect included: treasurer Caitlin A. Heber '16 (Simmons), risk management chair Allan E. Sudan '17 (East Campus), secretary Jasmeet K. Arora '17 (Senior House), Judicial Committee chair Gaurav J.

Singh '15 (Random Hall), dining chairs Cosmos Darwin '15 (Simmons) and Antonio Moreno '15 (Next), and housing chairs Phoebe J. Whitwell '15 and Matthew J. Davis '16 (New House), who had originally been on the ballot for the president position.

As DormCon president and vice president, Orphanides and Menendez said one of their main goals is to focus on working with the administration. During the candidacy speeches, certain topics like the closing and demolition of Bexley (a recurring topic through the night) and security changes came up as examples of breakdowns in communication between students and the administration. Menendez

DormCon, Page 15



CHRISTOPHER A. MAYNOR—THE TECH

The outside of Kresge was filled with upbeat music and cheers of encouragement as rowers from student and independent living group teams worked to raise money for Amphibious Achievement's third annual Erg-A-Thon on Thursday. Amphibious Achievement raises money for programs that combine aquatic instruction and college preparatory training for urban youth. This year, \$10,299 in donations were raised and over half a million meters were rowed by all teams.

## LETTERS TO THE EDITOR

David Randall on sexual assault and S3.  
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## GOD AT GRADUATION

Columnist opposes commencement prayer. **OPINION, p. 5**

## A STYLISH GANGSTER

*The Tech* reviews *Dom Hemingway*.  
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## USING THE RIGHT GREETING

Q.E.D. shows you all the ways it can go wrong.  
**FUN, p. 7**

## COLORS IN ALL THEIR GLORY

New quilts exhibit at the MFA. **ARTS, p. 11**

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# UN Council considers human rights abuses in North Korea

By Rick Gladstone  
THE NEW YORK TIMES

The United Nations appeared to move a step closer on Thursday to holding North Korea's government accountable for what an investigative panel has called a history of crimes against humanity and egregious human rights abuses, as the Security Council convened a special session to hear the panel's views on what should be done.

It was the first time that the Security Council had taken up the question of human rights in North Korea, the world's most isolated country, which is already under heavy international sanctions because of its nuclear weapons and missile activities.

Diplomats and rights activists who were invited to attend the session, which was closed to the news media, said they believed at least 10 of the 13 council members who attended would be inclined to refer North Korean leaders to the International Criminal Court at The Hague, Netherlands, for prosecution — and, at the very least, to

debate such a decision. China and Russia, veto-wielding members of the council, did not attend, but rights advocates said they were encouraged, nonetheless.

The Security Council session came two months after the U.N. investigative panel, a three-member commission led by a retired Australian judge, Michael D. Kirby, issued a damning report about what it described as North Korea's vast system of slave-like prison camps and other forms of state-sanctioned torture, intimidation and repression.

The commission's findings, after a yearlong inquiry in which thousands of North Korean refugees and others were interviewed outside the country, led the U.N. Human Rights Council in Geneva last month to recommend some form of criminal accountability for North Korean leaders. Kirby's panel was not permitted to enter North Korea.

Unlike the Human Rights Council, the Security Council has the power to refer countries to the International Criminal Court, which was established more than a decade ago.

Kirby, an outspoken jurist, told

Security Council members that “accountability is not optional” in the case of North Korea, where he said the rights abuses “exceed all others in duration, intensity and horror,” according to an account of his remarks provided by rights advocates invited to attend the session.

Kirby also spoke later at a news conference outside the Security Council's chambers.

“Enough is enough,” Kirby told reporters. “The time has come for the international community to insist on action.” Based on the questions the panelists fielded at the session, he said, “the only real question I detected was what that action should exactly be and when it should be taken.”

He estimated that 80,000 to 120,000 North Koreans toil in the country's prison camps, underfed and overworked, many of them held without any form of due process. “If ever there is to be a case for referral of a matter to the International Criminal Court, it is difficult to imagine a stronger case than has been laid out in the case of North Korea,” he said.

# Study chides U.S. over loan default by solar business

By Matthew L. Wald  
THE NEW YORK TIMES

WASHINGTON — Long before the Energy Department lost \$68 million on Abound Solar, a manufacturer that went bankrupt two years ago, it should have known that the company's chance of repaying the loan it had guaranteed was deteriorating, according to a report by the department's inspector general.

The damning report was issued as the Obama administration prepared to offer as much as \$8 billion in additional loan guarantees.

The loan guarantee program has been a magnet for criticism since the failure of Solyndra in 2011; that company took \$528 million in loans guaranteed by the Energy Department.

The new report, released Thursday, focused on loan guarantees extended to Abound Solar, which was initially offered \$400 million. When the company missed several

production milestones, the department cut off the loan guarantees, limiting the loss to taxpayers.

Solyndra failed mostly because the market price for solar equipment collapsed as a surge of Chinese producers flooded the market. That hit Abound too, but Abound also had quality problems. Its solar panels did not produce as much electricity as they were supposed to, and sometimes burst into flames.

According to the report, when an internal board at the Energy Department approved a loan guarantee in July 2010, the department staff believed that if the company failed, the government could still recover 38 percent of its money in a sale or liquidation. By the time the loan closed, staff members had reduced that estimate to 8.3 percent but did not tell the board, the audit found.

As quality control problems emerged — one customer returned \$2.2 million worth of panels and others canceled orders — one out-

side engineer reported to the department that the problems could be fixed, while an internal expert recommended that the department cut off the flow of loan money. The department did not resolve the conflicting opinions, and it continued the loan guarantees, the inspector general said.

The Energy Department agreed that its process could be strengthened but disagreed with many of the specific findings. A change in the estimate of how much money could be recovered if Abound defaulted did not raise the chance of default, the agency said. And most of the problems raised by the outside engineering consultant were, in fact, answered by the department's in-house solar expert, the department said in a reply.

The loan guarantee program was created in 2005 and signed into law by President George W. Bush, but no guarantees were actually issued until President Barack Obama came into office.

# Big labels take aim at Pandora on royalties

By Ben Sisario  
THE NEW YORK TIMES

NEW YORK — The music industry has opened a new front in its war against Pandora Media: royalties for songs made before 1972.

On Thursday, several major record companies filed a lawsuit in New York state Supreme Court in Manhattan, accusing Pandora of violating the state's common-law copyright protections by using recordings of older songs without permission. Along with a string of cases filed last year against Sirius XM Radio, the suit highlights an obscure legal issue that has come to the fore with the rise of streaming music online: that recordings made before Feb. 15, 1972, are not subject to federal copyright protection and may be missing out on tens of millions of dollars in royalties, according to industry estimates.

In the suit, the three big la-

bels, Sony, Universal and Warner Music, along with ABKCO, an independent label that controls the rights to many early songs by the Rolling Stones, accuse Pandora of playing old songs without licenses. Like the suits last year against Sirius XM — the band the Turtles (“Happy Together”) acted first, with a \$100 million class-action suit, and the labels followed with their own complaint — the case argues that even though songs from before 1972 are not under federal copyright, Pandora should have to get permission to use them under state law.

“This case presents a classic attempt by Pandora to reap where it has not sown,” the labels say in the suit. “Pandora appropriates plaintiffs’ valuable and unique property, violates New York law and engages in common law copyright infringement and misappropriation and unfair competition.”

María Elena Holly, the widow

of Buddy Holly, said in a statement circulated by the Recording Industry Association of America, which coordinated the suit: “Just because Buddy and the other ‘50s musicians recorded songs before 1972 doesn’t mean their songs have no value. These companies’ failure to pay the rock ‘n’ roll pioneers is an injustice and it needs to change.”

The suit includes a long appendix of songs by major acts from the 1940s to the early ‘70s like the Beatles, Hank Williams, Aretha Franklin, Bob Dylan, James Brown and the Rolling Stones.

A Pandora representative said the company was confident in its legal position and looked forward to a quick resolution of the matter.

Under federal copyright law, online and satellite radio services like Pandora and Sirius XM must get licenses to use recordings made after 1972, so both companies pay hundreds of millions of dollars for these recordings.

# In a switch, some campaign ads press the positive

WASHINGTON — Outside political groups, long known for their darkly negative advertisements, are trying something new this campaign season: a pivot to the positive.

Some of the best-known super PACs — like Americans for Prosperity, which is backed by conservative billionaires David H. and Charles G. Koch — are making an effort to also cast their candidates in an appealing way instead of solely attacking opponents. This year, 16 percent of Americans for Prosperity's spots have been positive; in 2012, the group did not run a single one.

The shift is the product of several factors — the renewed hope that positive commercials can break through the advertising clutter; lessons of the 2012 presidential race, when Mitt Romney and outside Republican groups largely failed to offer an alternate message to an onslaught of negative spots; and the increasing prevalence of stock footage made public by campaigns that makes producing positive ads a bit easier.

By one group's estimate, 29 percent of the spots by Karl Rove's American Crossroads and Crossroads GPS, its affiliated nonprofit group, have had a positive spin this year; at the same point in 2012, the group had run no positive spots, and during the entire previous cycle, the group produced only three positive ads.

In all, 29 percent of the total spots by outside groups have been positive this election cycle, compared with the 20 percent that carried a positive message at the same point in 2012, according to Kantar Media/CMAG, which tracks every political ad on broadcast or national cable television.

Super PACs are not totally rewriting their campaign playbooks. Negative advertising works, and after the Supreme Court's Citizens United decision in 2010, which paved the way for unlimited spending by outside groups, they have largely considered themselves masters of the dark arts, preferring to leave the positive messages to the candidates themselves.

But with a historic barrage of outside groups' money pouring into crucial states and districts across the country, the all-negative, all-the-time approach seems to be changing, especially during the early months of campaign season.

“Super PACs can do positive ads to counter the negative ads that are being run by other super PACs,” said Fred Wertheimer, president of Democracy 21, a campaign finance watchdog group. “Positive ads by outside spending groups may well be run to counter the impact of all that negativity.”

“This is an arms race,” he added, “and people have to respond.”  
—Ashley Parker, *The New York Times*

# Taxi driver charged in \$28,000 toll fraud

NEW YORK — Back and forth the driver went. A thousand times over the Robert F. Kennedy Bridge. Three thousand trips through the Queens-Midtown Tunnel. Each time without paying a toll. It might sound like the fever dream of a New York City car commuter.

It was, the authorities said, the reality for one taxi driver who for nearly two years sneaked through toll plazas by “piggybacking” on the driver in front of him and pocketing payments totaling more than \$28,000.

Queens prosecutors on Thursday charged the driver, Rodolfo Sanchez, 69, with grand larceny, theft of service and criminal possession of stolen property for a scheme that began in August 2012 and ended Wednesday at 3:40 p.m. It is not a new way to get something for nothing, the authorities said, but no single driver appeared to have ever been caught making quite so many free trips.

“This type of behavior is egregiously unfair to the millions of honest motorists who pay tolls every day,” Donald Look, the chief of security for the Metropolitan Transportation Authority Bridges and Tunnels, said in a statement.

Sanchez said he got the idea, according to prosecutors, by watching other drivers doing the same trick: tailgating a car and slipping through the tollbooth before the barrier came back down. From that point, Sanchez told investigators, he was “able to cross without making toll payments,” according to the complaint.

The Metropolitan Transportation Authority, which manages both crossings and conducted the investigation into Sanchez, declined to discuss how many New Yorkers try to beat the toll in this way — the equivalent of squeezing into a subway turnstile with an unsuspecting paying rider. “We certainly don’t want to encourage people to do this,” said Judie Glave, a spokeswoman for the authority.

“I needed the money for my family,” he is said to have told investigators.

—J. David Goodman, *The New York Times*

# Move to ban recalled GM cars from roads is denied

General Motors won a significant round Thursday in the escalating legal battles over its handling of a defective ignition switch in millions of its small cars, avoiding an order that would have effectively taken the cars off the road.

The ruling came in a lawsuit filed by Charles and Grace Silvas over compensation for the lost value of their 2006 Chevrolet Cobalt, which was recalled along with 2.6 million other cars that have a faulty switch.

The plaintiffs asked Judge Nelva Gonzales Ramos of U.S. District Court in Corpus Christi, Texas, to force GM to instruct owners not to drive the cars until they were repaired. But the judge denied the motion, saying the National Highway Traffic Safety Administration, the federal agency that regulates the nation's roadways, had primary jurisdiction over the issue.

“The court is of the opinion that NHTSA is far better equipped than this court to address the broad and complex issues of automotive safety and the regulation of automotive companies in connection with a nationwide recall,” Ramos wrote.

GM had vigorously fought the motion for a so-called Park It Now alert, saying it was unnecessary and would “confuse consumers and result in regulatory chaos.”

—Hilary Stout, *The New York Times*

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*Rachel A. Bowens-Rubin '11*

An article about the committee on discipline in the same issue misspelled the name of the senior associate dean for graduate students. It is Blanche E. Staton, not Stanton.



# God is at your graduation

## *The case for removing official prayer from MIT's graduation ceremony*

**By Aaron Scheinberg**

Did you know that at your graduation, you will be asked to pray to a god, whether you believe in one or not? Chances are that you didn't, and that's the peculiar thing about graduation — you don't know anything about it until it's over, and after that you'd be hard-pressed to care. Now, you may recognize there are bigger problems out there, and ask, "Who cares about some words?"

I agree that this is a small concern. But it irks me when such a trivial problem has an equally trivial and amenable solution, and when slights, however minor, could be so easily corrected but are not.

sincere intellectual struggle. Except that like most students, he didn't know about it in advance. And for what?

A graduation prayer is an exclusive ceremony directed toward those who believe in a god — some 40 percent of the student body, according to the 2012 survey by *The Tech* (although about 20 percent stated neither belief nor lack thereof). The rest of graduation is broadly accessible and intended to have meaning for all students.

In the 2013 convocation prayer, Chaplain Bob Randolph invoked “God of Abraham, Jesus, and Mohammed” to include religious minorities. After all, imagine you are a Christian. Something might not sit well if

sage is always universal — wishing well toward humanity, wishing us wisdom, resolve, and other virtues. It would be so easy — embarrassingly easy — to extend that message to 100 percent of students by simply not invoking religion.

Before MIT, I attended the University of Texas. Although open nonbelievers are a small minority there, no official UT ceremonies feature a prayer. Now, you and I both know why — public institutions cannot endorse a religion thanks to our First Amendment. Federal courts have long ruled that prayer at graduation constitutes an endorsement of religion. So by legal standards, leading an official prayer to God at graduation means that MIT is endorsing theism. It's free to do that, but I wonder who desires it. MIT is an established safe haven for ideas and spirited discussion, and I doubt anyone feels it's appropriate for it to adopt an official position on religious truth.

Of course, my first thought was, "Why remove a tradition when it's not hurting anybody?" But based on the above consideration, damage is done. I often defend the importance of tradition. It links us to one another and to the same moment in years, decades, and centuries past. But what does this graduation prayer provide? You only do it once. No one seems aware in advance that it will happen, so no students would note its absence.

Standing at graduation, I will feel a connection to all the past MIT graduates in whose footsteps I follow. But is it the prayer that facilitates that connection? Maybe I'll feel solidarity with those who found it equally distasteful but were resigned to its continuation because it wasn't worth challenging. Sometimes traditions should end, and I believe this tradition of exclusion has run its course.

Another objection is that some people would like the ceremony to be less religious while others would like it to be more reli-

gious, and it is the administration's duty to find a happy medium. But how many students, accustomed to the pluralism and mutual respect of MIT, really feel it is right and important to inject their own religion into a ceremony that is supposed to bear deep significance for all their nonreligious peers as well?

**Sometimes traditions should end, and I believe this tradition of exclusion has run its course.**

If the administration wants to accommodate everyone, it should minimize exclusion, not average presumed personal preferences. Simply not mentioning God would exclude no one. Choosing neutrality would just be like all the other days when MIT doesn't endorse a religion. If religious students would like an additional ceremony to celebrate graduation in a distinctly theistic way, that can happen separately. The main ceremony, however, is a banner of our entire community's values. Let us not so needlessly inflict hypocrisy on the Institute's dedication to inclusivity.

The Founding Fathers wisely disconnected government from religion to keep the latter from acting as a divisive force. Likewise, graduation should be a great celebration of unity among MIT students — a celebration not just of our individual accomplishments, but also of our collaboration, commiseration, and common values. The ceremony should unite us. Every segment and speaker in it should make an effort to ensure the ceremony belongs to each and every one of us.

*Aaron Scheinberg is a graduate student in the Department of Earth, Atmospheric, and Planetary Sciences. He can be reached at [worldmap@mit.edu](mailto:worldmap@mit.edu).*

**If the administration wants to accommodate everyone, it should minimize exclusion, not average presumed personal preferences.**

Last graduation, a friend expressed his distaste and frustration to me regarding the prayer. Like many students, he overcame tremendous odds to arrive and succeed at MIT. Distanced from the religious pressure of his community back home, he eventually left religion entirely — a transition he viewed with pride, as another accomplishment facilitated by the intellectually open atmosphere of MIT.

This is not atypical — 28 percent of seniors surveyed by The Tech expressed that they had lost or diminished their religious faith during their time here. For him and for many students, graduation was perhaps the most significant life milestone up until then. The ceremony is meant to celebrate everyone's perseverance, accomplishment, growth, and bright future. And yet in order to attend this ceremony, he had to accept that he would be asked to go against his convictions by praying to a god and subject himself to the invocation of a belief system from which he had proudly divorced himself after

you were asked, at an event whose purpose is to mark an important personal milestone, to pray to Allah. Now, you wouldn't make a fuss — it only lasted a minute, you tuned it out — but something would certainly feel inappropriate. It would be excluding you.

Abraham and Mohammed were mentioned so that the approximately three percent and two percent of the MIT population that practice theistic Judaism and Islam, respectively, would feel included, and I support that intention. But why bother including these groups if you are excluding the 40 percent of MIT students who do not believe in gods at all?

We rightly feel instant sympathy for religious minorities who might have to stand around awkwardly while a Christian ceremony is inserted into their graduation, but it somehow feels acceptable to make nonbelievers do the same. Why is it necessary to avoid subjecting disciples of other religions to Christianity, but atheists just have to tough it out? Meanwhile, the prayer's mes-

# Have something to say?

# Write opinion for *The Tech!*

*opinion@tech.mit.edu*

OPINION

HOW WELL I UNDERSTAND ORBITAL MECHANICS:

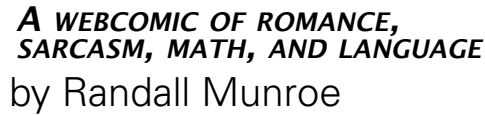
TOOK HIGH SCHOOL PHYSICS

GOT PHYSICS DEGREE

ACTUAL JOB (AT NASA)

STARTED PLAYING KERBAL SPACE PROGRAM

TIME →



Solution, page 14

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

## Solution, page 14

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

## Solution, page 14

- 1 Vampire's tooth
- 5 Armed conflict
- 8 Employee's end-of-week shout
- 12 Aroma
- 13 Grain-storage building
- 14 Pan-fry
- 15 Repetitive learning method
- 16 Not too many
- 17 Job offerer
- 18 Daily newspaper feature
- 21 Informal eatery
- 24 Family room
- 25 Environmentally friendly prefix
- 26 Tehran's nation
- 29 Soup legume
- 34 Discontinue
- 36 Turnpike charge
- 38 Top-notch
- 39 Military scout's position
- 42 Speck of dust
- 43 Creative notion
- 44 Author Joyce Carol \_\_\_\_

- 47 Dull in color
- 49 Sphere
- 50 Plop into a chair
- 52 Reduce in rank
- 54 What a compass needle  
points to
- 60 Mistake
- 61 "Guided" vacation
- 62 Atlas pages
- 66 Acts as a guide
- 67 Doily fabric
- 68 Cleveland's state
- 69 Scottish caps
- 70 Moose relative
- 71 Hourglass filler

1 In favor of  
2 "Without further \_\_ . . ."  
3 Forget-me-\_\_  
4 "Wonderful!"  
5 Internet hotspot service  
6 Baldwin of 30 Rock

8 What a dog wags  
9 Wise mentor  
10 Agenda listing  
11 Flowerless plant  
13 Enjoy greatly  
14 Glistened  
19 Not as wet  
20 Large stringed instrument  
21 Turn into eventually  
22 Refrigerator's ancestor  
23 In order that one may  
27 Ever so slightly  
28 Made mention of  
30 California wine valley  
31 Tastelessly overdone  
32 Letter enclosure  
33 Leaves alone  
35 Sunflower edible  
37 Untruthful person  
40 Pay a call on  
41 \_\_ Peace Prize  
46 Computer operators  
48 Really like  
51 Name of a book

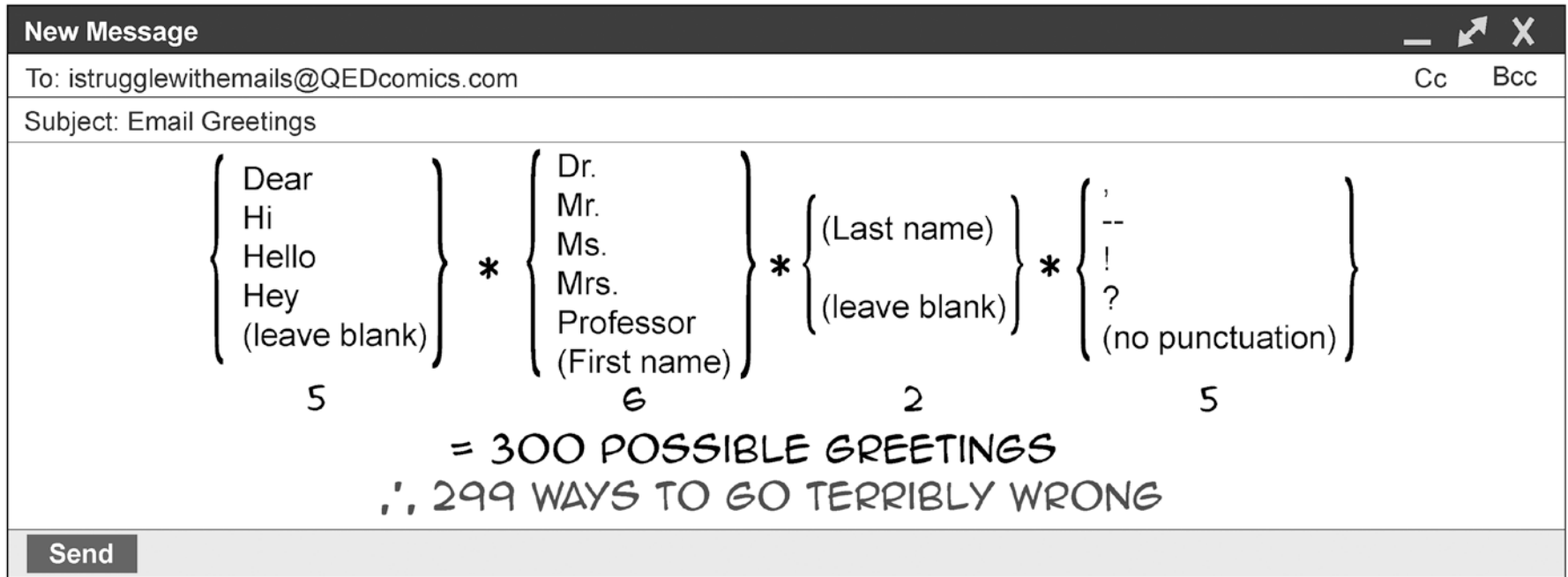
53 Office messages  
54 Thaw  
55 General vicinity  
56 Metric weight  
57 Head-moving assents

58 Old-time furnace fuel  
59 Hockey disk  
63 "Now I understand!"  
64 Bowler's target  
65 Pre-grown lawn material



**Q.E.D. (QUITE EASILY DONE)**

BY ERIKA TRENT

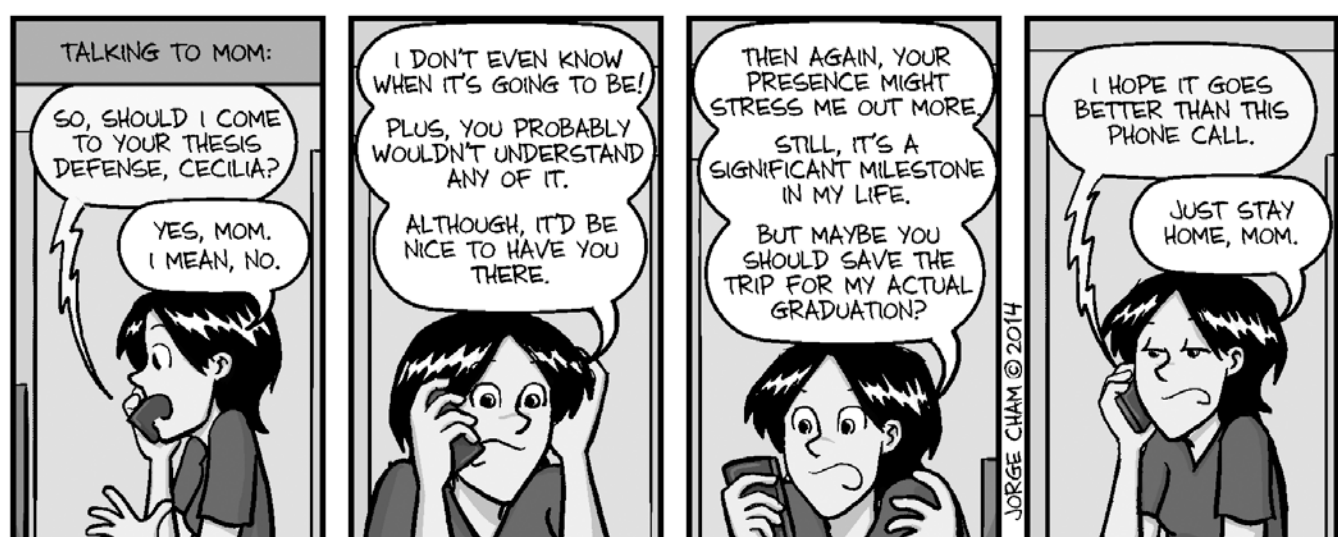


WWW.QEDCOMICS.COM

# UPPERCUT by Steve Sullivan



by Jorge Cham



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“a feeding frenzy for the brain!”

## Coop Student Board of Directors Election Update

The following student Coop members are candidates for the  
Board of Directors for the 2014–2015 academic year.



MIT Undergraduate Students:  
Emma Kane, 2015  
David McClelland, 2015  
Eric Ruleman, 2016  
Victoria Stivanello, 2016

MIT Graduate Students:  
Laura Diamond, MBA, 2015

Harvard Undergraduate Students:  
Hunter Fortney, 2015  
Monika Lutz, 2015  
Irfan Mahmud, 2016  
Vincent Ong, 2017  
Neil Purdy, 2017  
Madeleine Smith, 2016  
Peter Wu, 2016

Harvard Graduate Students:  
Payal Agrawal Divakaran, MBA, 2015  
Oliver Hauser, PhD, 2016

Voting Deadline is  
Thursday, April 24



## Cards aim to lower hassle for students

*New system cannot be used for  
alcohol, sales tax, or travel costs*

CVC, from Page 1

dent groups] don't have to worry about fronting the money," he said.

The committee used a lottery to select 26 of the 47 groups that applied to be a part of the beta test. "The number of groups within each type of group... was predetermined," said Cory D. Hernandez '14, UA Treasurer and co-chairman of the CVC committee. Club sport groups, dorms, Finboard-funded groups, organizations funded by the Graduate Student Council, student governments, and unfunded groups are all part of the testing set.

**While there is a learning curve, most mistakes, are unlikely to happen more than once.**

The beta test, which came after a 19-group alpha test that took place last fall, is designed to determine the effects of increased CVC transactions on the SAO's workload and give the committee a chance to test out the CVC application process, Hernandez told *The Tech*.

Hernandez noted in an email that five of the 19 groups in the alpha test will not participate in the beta test; one had been removed from the alpha test due to "misuse of the card," and four were not included because they had not used the card at all.

Hernandez explained the rules regarding CVCs in an email to *The Tech*: only one member of each group may be a cardholder; the cardholder must attend a training session with Codner; and the card may not be used to buy alcohol, pay sales taxes, or cover travel expenses. He added that cardholders must provide the Student Activities Office (SAO) with original receipts within ten days.

"Any procurement process has both a paper side and electronic side," Codner explained. "The students are still required to do the paper side," he said. But with the CVCs, "they're not scanning receipts or uploading anything." Unlike with RFPs, expenses do not have to be forwarded to a treasurer electronically before the treasurer forwards them to the SAO, he said. Nor does the cardholder have to personally deliver the receipts to the SAO — they may mail them across campus using free inter-de-

partmental mail or have another person deliver them.

Codner and Hernandez both stressed that travel expenses consist of any purchases made while on a trip, including things like food. For large travel expenses, "Colin has a procurement card; some groups use it to book hotels or purchase airline tickets," Hernandez said in an interview.

Codner said that travel expenses charged to the CVC, and charges for which the student does not provide a receipt within 26 days, are charged to the SWEPT account that lists unverifiable expense, which creates an audit liability. Codner said that if sales tax is charged by mistake, the retailer or restaurant will often refund it. When that is not possible, the sales tax is considered an unallowable expense. The Institute considers both audit liabilities and unallowable expenses when deciding whether to continue issuing the group a CVC, he said. In extreme cases, the card could be revoked. Codner stressed that "the [most common] reason things were SWEPT was delayed turning in of receipts as opposed to other situations."

Turner Bohlen, the other co-chairman on the CVC committee, said that while there is a learning curve, most mistakes, such as accidentally charging a travel expense, are unlikely to happen more than once.

Hernandez said that 68 percent of the money charged against the CVCs during the alpha test was for food, and 25 percent was for Amazon purchases. Codner explained that it is not reasonable to compare the number of transactions, because Amazon bills the card only after an item has shipped, meaning that a single multi-item purchase on Amazon is likely to show up as several transactions.

Codner said that the CVCs don't seem to create much additional work for the SAO, given that their verification process is less work intensive than the labor for RFPs. This is counterbalanced by the additional volume due to the way Amazon bills the CVCs.

Reflecting on future plans for the CVC rollout, Hernandez said that the committee would like to issue multiple cards to groups. Some groups that host "multiple large events," he explained, would appreciate "a card for each director."

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Annia, Course 3	Joyce, Course 10	Leon, Course 18
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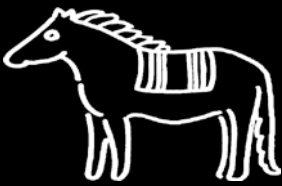
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Jenny J. Wei '15 performs in MIT Dramashop's production of *The Pillowman*, written by Martin McDonagh and directed by Janet Sonenberg, during the dress rehearsal last Wednesday, April 9.



Students of Next House designed and built a 100-foot zip-line for CPW in the Next House courtyard. Riders of the zip-line included prefrash and undergrads, as well as Chris Colombo, the Dean of Student Life and Next House's Housemaster.

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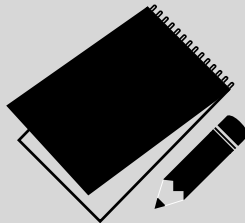
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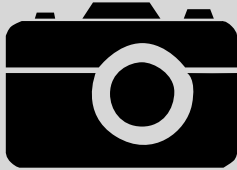
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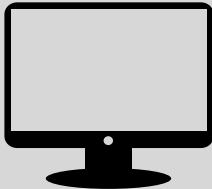
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# A year after the Boston bombings, a day of tribute

*Boston residents remember and mourn on the anniversary of the marathon tragedy*

**By Katharine O. Seelye**  
*THE NEW YORK TIMES*

BOSTON - It may be one of the biggest cities in the country, but Boston was a small town on Tuesday as it mourned the losses it suffered in mayhem a year ago and as it honored the sense of community that emerged from the ashes.

"There are no strangers here," Gov. Deval Patrick said to an overflow audience of 2,700 at the Hynes Convention Center on Boylston Street. "We are all connected to each other, to events beyond our control, to a common destiny."

He was addressing families and loved ones, first responders and medical professionals, runners and spectators, all brought together by their ties to last year's Boston Marathon. One of the best-known sporting events in the world, it turned deadly last year when two homemade bombs, planted close to the finish line, killed three people: Krystle Campbell, 29, Lu Lingzi, 23, and Martin Richard, 8. The bombs wounded 260 others and cost 16 some of their limbs. The two men accused of the bombings are alleged to have killed a fourth person, Sean Collier, 27, a police officer at

MIT, a few days later. The tribute at the convention center was the central event of a gloomy, rain-soaked, tear-streaked anniversary that began with a wreath-laying ceremony near the finish line and ended with candlelight vigils.

**The sense of community was evident, too, in the downpour at the site of the explosion.**

But the evening observances were disrupted when the police saw a man walking barefoot in the rain with a backpack near the finish line on Boylston Street. The man told the police that he had a rice cooker in the backpack, which the police confirmed. Randall Halstead, the police superintendent of the night command, told reporters that the man, in his 20s, was taken into custody and charged with possession of a hoax device and disorderly conduct.

The bomb squad then "rendered" the backpack safe, Halstead

said, creating what sounded like a contained explosion. He said the contents of the backpack were under investigation.

Streets in the area were cleared of pedestrians, and traffic was blocked off for almost three hours.

Earlier, one of the most emotional moments of the day came at the beginning, when Jane Richard, 8, and her brother Henry, 12, helped lay a wreath for Martin, their brother, in front of the Forum restaurant, where one of the bombs went off last year. Jane, her prosthetic leg visible below her dark skirt, briefly touched the wreath, and she and her brother stood quietly for a few moments before turning to their parents for hugs.

At the tribute, Patrick took note of the few degrees of separation among those at last year's race. He said that Martin had carried a Deval Patrick campaign sign when Martin was only 2. Mayor Martin J. Walsh, who also spoke at the tribute, had been the boy's Little League coach.

"It felt like we knew everyone who was hurt, everyone who was suffering," Walsh said, reflecting a quirk about Boston - that everyone

seems to know everyone else, and if they did not know one another before the marathon, they did now. They have learned their back stories and followed their progress.

The sense of community was evident, too, in the crowds that gathered in the downpour for a flag-raising ceremony at the site of the explosions. Many recognized Carlos Arredondo, the cowboy-hat-wearing bystander who became famous last year when he helped rescue Jeff Bauman, who lost both legs. But Kristen McKenzie, 34, a nurse at Brigham and Women's Hospital, even recognized someone in the crowd far more anonymous: a man who had stood guard at a makeshift memorial that sprang up after the bombings.

"He was guarding that, day in and day out, so it was nice to see him," she said.

Perhaps the most intense bond that has been forged is that among a completely random group of people who had little in common except their enthusiasm for cheering on runners and then the grave injuries they endured.

The survivors have helped one another recover, moving from

hospitals to rehabilitation together, some of them forming deep friendships. More than 100 of them even went on a cruise together in December.

"To our fellow survivor community," said Patrick Downes, speaking from the lectern at the tribute, "what would we do without each other?" Downes and his new wife, Jessica Kensky both lost their left legs in the blast.

Vice President Joe Biden, who spoke last at the tribute, leaned on the lectern and clasped his hands in front of him, saying it was an important day, not just for Boston but for the country because the city had inspired everyone.

In a rousing finish, Biden summoned an image of next Monday, when runners will again line up to start the marathon, now in its 118th year.

"You will send a resounding message around the world, not just to the rest of the world but to the terrorists, that we will never yield, we will never cower, America will never ever, ever stand down," he said. "We are Boston! We are America! We respond, we endure, we overcome and we own the finish line!"

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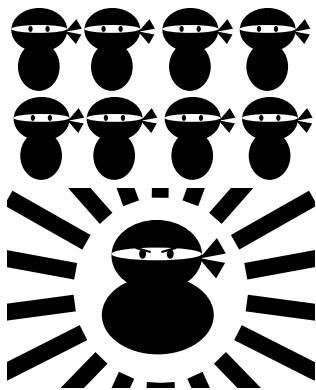


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*from page 6*

6	9	3	1	5	4	8	2	7
4	2	1	8	9	7	3	6	5
8	5	7	2	6	3	4	9	1
7	3	8	6	1	2	9	5	4
2	1	9	4	3	5	6	7	8
5	4	6	9	7	8	1	3	2
1	7	5	3	8	6	2	4	9
3	8	2	7	4	9	5	1	6
9	6	4	5	2	1	7	8	3

**Solution to Techdoku**  
*from page 6*

2	1	5	3	4	6
3	2	6	4	5	1
6	5	3	1	2	4
4	3	1	5	6	2
1	6	4	2	3	5
5	4	2	6	1	3

**Solution to Crossword**  
*from page 6*

FANG	WAR	TGIF
ODOR	SILLO	SAUTE
ROTE	AFEW	HIRER
	ADVICE	COLUMN
BISTRO	DEN	
ECO	IRAN	LENTIL
CEASE	TOLL	AONE
OBSERVATION	POST	
MOTE	IDEA	OATES
EXODUS	DRAW	ORB
	SIT	DEMOTE
MAGNETIC	POLE	
ERROR	TOUR	MAPS
LEADS	LACE	OHIO
TAMS	ELK	SAND

# DormCon president plans to help dorm residents

## *Closing of Bexley and ‘lack of communication’ among main DormCon election issues*

DormCon, from Page 1

called it an “issue of persistence.” “Once we start the conversation, we need to actually push action forward,” said Menendez in reference to, among other issues, DormCon’s actions following the closing of Bexley. “We do this political show of solidarity, but we

don’t actually do anything past that... We just provide a statement that ‘we’re not okay with this.” Menendez said that if he had been DormCon president during the closing of Bexley, he would have pushed for action on one of the biggest problems he perceived — helping Bexley students get their housing in order.

One of Orphanides’ platform stances was to publicize DormCon and its roles in the MIT community to more students, in an effort to broaden avenues of communication between DormCon and the student body. “It’s funny how the average MIT student has no idea what Dormcon is or does,” said Menendez.

Orphanides said her plan is to talk to students at orientation about DormCon and let them know how DormCon can support the student body. The two also hope to increase the community atmosphere around MIT by holding both campus-wide events, like the recent CPW picnic, and build upon the success of existing inter-

dormitory events like the McCor-mick-Next formal. “In this room, we all know each other. That’s great. But do people in a dorm on west campus know people in a dorm in east campus?” said Orphanides during her candidacy speech. “That’s what DormCon represents. All of us together.”

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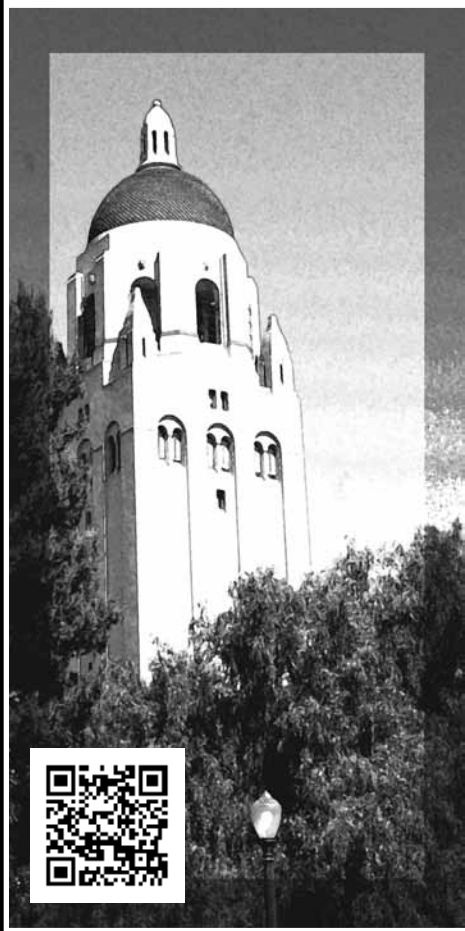
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# Team is a cross-section of MIT's larger community

*Runners hail from different parts of campus: students, faculty, alumni, and facilities*

**Marathon**, from Page 1

morial Fund, a charity established by MIT in the aftermath of the marathon bombings in order “to establish a Collier Medal — to be awarded to individuals who demonstrate the values and character of Officer Collier — as well as other causes,” according to the award’s website.

At press time, the total funds donated to the team (including those donations dedicated to the whole team and individual runners) stands at \$138,025.18, which is 97 percent of the combined team goal of \$142,600.

“I was excited about the possibility of running Boston this year, but

realized the real focus was trying to raise funds for the Collier Memorial Fund. I am amazed at the commitment of all the team members to meet and hopefully exceed our minimum goal for fund-raising,” said Professor Jonathan A. Runstadler, an assistant professor in the biological engineering department. Runstadler is among five professors on the MIT Strong team.

While MIT Strong was organized by MIT, there was no leader of the team, but rather an organizing committee that planned and executed the logistics of events. Kris Brewer, a member of this five-person committee, said, “It’s been a lot of work

planning and arranging all of the pieces, but definitely rewarding.” The other members of the committee in-

**There was no leader of MIT Strong, but an organizing committee ran events.**

cluded Miller, Tom Gearty of the MIT Resource Development, Chad Galts of the School of Engineering, and Stephanie Kloos, a fitness director at the Department of Athletics, Physical

Education, and Recreation (DAPER).

According to the team members, each runner has been preparing for the marathon for months, many of them setting up practices together. Miller and Azzarelli, however, both believed the race itself isn’t as important as the message the team sends to the MIT community. “It’s not really about the personal best. The biggest thing is that there will be a lot of energy that day and it’s just a really interesting Boston Marathon to be running,” said Azzarelli.

The team itself was described by Runstadler as a “cross-section” of the MIT community who all have demonstrated the spirit of MIT.

On the fund-raising campaign and MIT Strong team, Chancellor Cynthia Barnhart PhD ’88 said, “There is something grander at work here. [The MIT Strong team] starts to symbolize a community.”

MIT will also host a series of events today, starting with a ceremony for Collier from 9:30-11:30 a.m. followed by a community picnic on the North Court, from 1:00-2:30 p.m. The Boston Marathon takes place on Monday, April 21. Designated cheer stations and bib numbers for the marathon runners of the MIT Strong team can be found at: [http://mitstrong.mit.edu/Race\\_Day\\_Info](http://mitstrong.mit.edu/Race_Day_Info).

# No specific reasons provided for DU's suspension

*MIT release cites ‘inappropriate behavior’ as the cause of Delta Upsilon’s suspension*

**DU**, from Page 1

When the MIT chapter of Phi Beta Epsilon was suspended in 2010, MIT and the IFC cited hazing as the reason. No such specific reason has been provided to *The Tech* yet in the DU case.

“The main reason that the situation was different this time around

is because last year we updated our judicial committee bylaws such that certain situations are no longer in the purview of JudComm,” Anil said. “This allowed the FSILG office to act first, so it never came to the IFC.”

Article II of the JudComm bylaws states that, in most cases, the Committee on Discipline will handle cases involving “hazing, sexual mis-

conduct, serious injury, or death.”

In an email to fraternity members Thursday, Anil wrote: “I urge the community to refrain from speculating about the possible causes of this action. Though this decision and its consequences ultimately affect all of our community, we must respect the privacy of the men of Delta Upsilon as they navigate through this diffi-

cult time.”

Any reconstitution of the DU chapter must exclude current members, according to MIT’s press release. Current members, including freshmen, are now officially alumni of the fraternity, but they are prohibited from hosting events or doing business as Delta Upsilon.

Anil said, “From an MIT perspec-

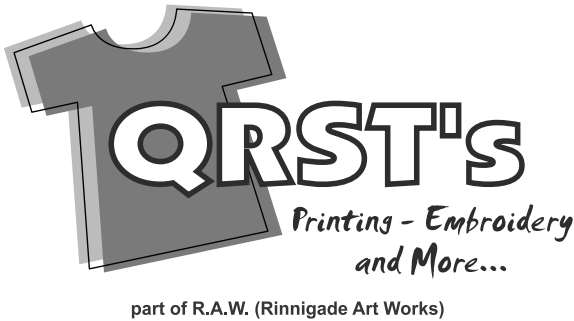
tive and the national chapter’s perspective, since they are alumni of the organization, they are still considered affiliated with the organization, but they are not allowed by MIT and IFC policy to rush any other fraternities on campus.”

MIT has revoked the rights of the chapter as a student group to reserve rooms on campus or register events.

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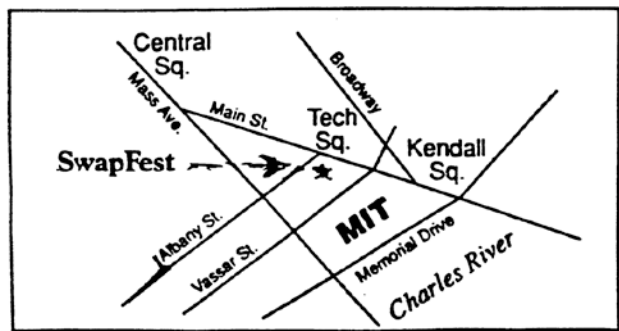
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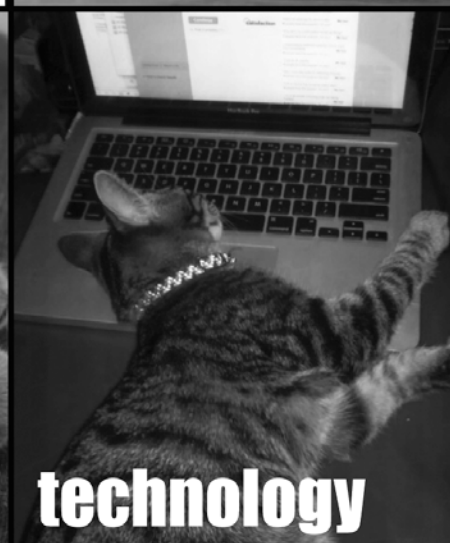
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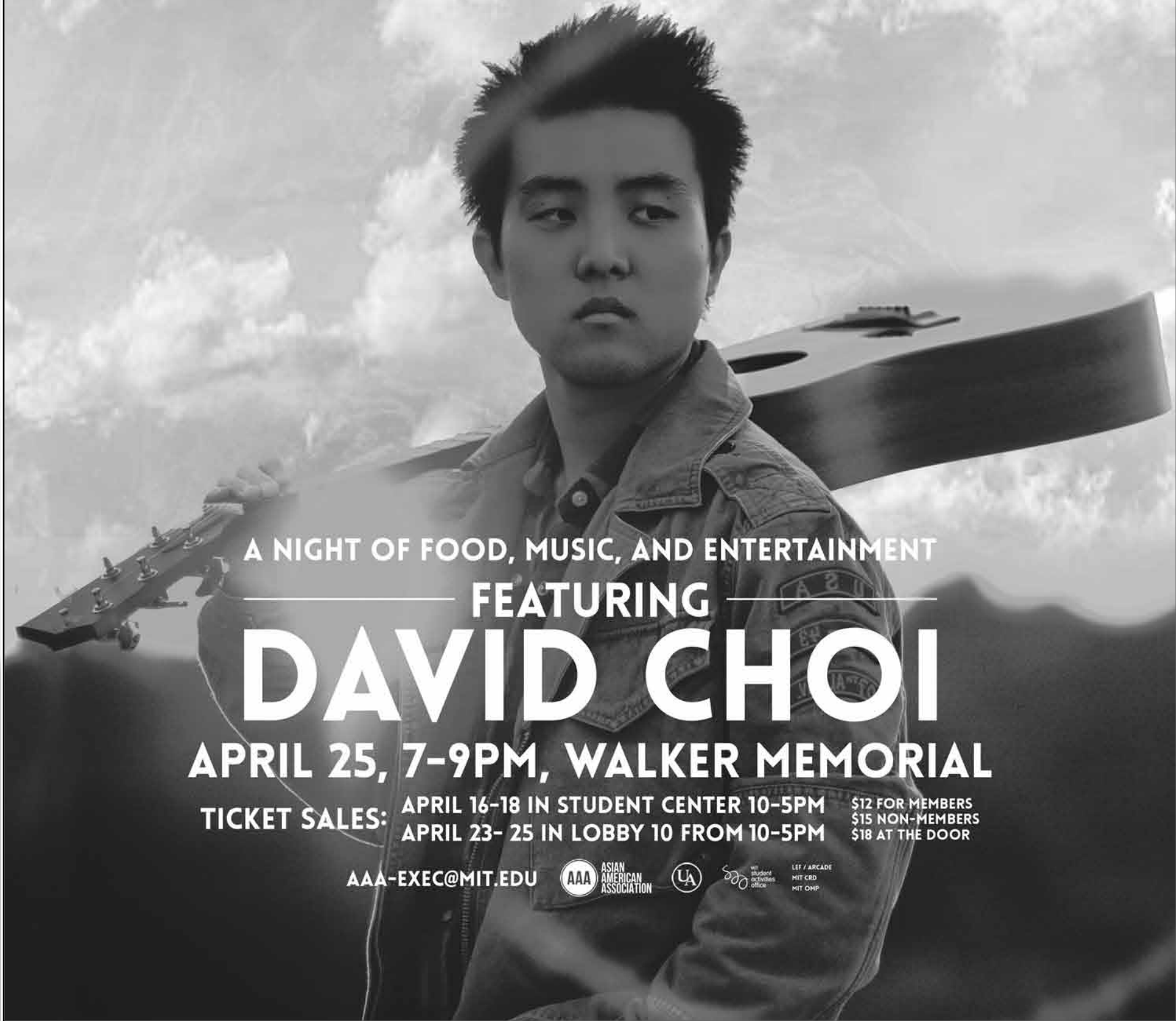
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# Michael Schumacher: A Formula One legend

*After suffering a serious head injury, one of F1’s premier drivers is fighting to recover*

By Deepak Narayanan  
SPORTS STAFF

In the world of sport, the term “legend” is reserved for an elite group of individuals — sportspeople who have distinguished themselves in ways previously thought unimaginable: Roger Federer for winning 17 singles grand slam titles; Michael Phelps for 18 gold medals at the Olympics; Sachin Tendulkar for hitting 100 centuries through his career; Joe Montana for winning four Super Bowls as the 49ers’ starting quarterback. In the world of motorsport, Michael Schumacher was definitely a “legend.” In an illustrious 19-year racing career, Schumi (as he’s affectionately known) won a record seven championships, a record 91 races, and started the most races ever from pole position.

Last year on Dec. 29, while skiing with his family in the Swiss Alps, Schumacher hit his head on

a rock and suffered a serious head injury. For the last four months, Schumi has been in a state of induced coma, as doctors try to wrestle him back to health. The last couple of weeks have seen some good news filter in, as he has reportedly shown some signs of consciousness. By all accounts, he’s been as much of a fighter in real life as he was on the track.

**In a 19-year racing career, Schumacher won a record seven championships, a record 91 races, and started the most races ever from pole position.**

Schumacher began his F1 racing career around a time when fatalities were still common in Formula One. In fact, Schumacher has witnessed tragedy right in front of his eyes. In just his fourth season, at the San Marino Grand Prix in 1994, he was driving right behind

triple-world champion Ayrton Senna when Senna collided head-on with a barrier and died almost immediately after impact. That he escaped major accidents throughout his 19-year racing career, only to be the victim of a freak ski accident, is truly astonishing.

To say the least, Schumacher changed the way Formula One is perceived the world over. He

single-handedly made Ferrari a force to be reckoned with again in the Constructor’s standings. In his heyday years from 2000 to 2004, Schumacher redefined the meaning of dominance in the sport, winning five continuous championships, and setting a record for most

races won in a five-year period. His 2004 season was particularly magnificent, when he won a record 12 of the first 13 races, only failing to finish at the Monte Carlo Grand Prix because of an accident with Juan Pablo Montoya.

Schumacher’s ultra-aggressive driving style and scant respect for his competitors meant Formula One during his active years was never devoid of entertainment. Often, Schumacher found himself at the center of controversies, and at the receiving end of the ire of a number of his fellow racers. Nonetheless, his charisma meant that in the eyes of a number of fans, he transcended the racetrack, and was often accorded superstar status on his travels.

Schumacher retired from Formula One for the first time at the end of the 2006 season, after a number of car reliability problems prevented him from realistically competing for a record eighth

World Championship. Schumi stayed on as an advisor to Ferrari, but for the most part, he stayed away from the public eye. However, after a quiet couple of years, a number of rumors surfaced that he would be returning, and in Dec. 2009 it was formally announced that he would be making a comeback in the 2010 season with Mercedes. The comeback, however, did not go as well as intended, and the next three years were only punctuated by moments of brilliance; for the most part, he was handsomely outraced by his teammate, Nico Rosberg.

All things said, Schumacher left an incredible legacy to Formula One, not only on the race track but off it as well. Now, he needs to show the resilience and desire that characterized his driving style to win one more time. It’s a race that everyone wants him to win. Stay strong, Schumi. We need you back.

# Real Madrid and Bayern Munich battle for final spot

*Evenly matched teams Atletico Madrid and Chelsea compete for the other spot in the final*

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will battle it out with Bayern Munich to earn a spot in the final. The first leg of the draws will be on April 22 – 23, while the second legs will be played on April 29 – 30.

## Atletico Madrid vs. Chelsea

I haven’t gotten tired of writing that Atletico Madrid are having a phenomenal season, and I hope you haven’t gotten bored of reading it, because that is the only way to summarize their season so far. They are three points ahead of Real Madrid and four points ahead of Barcelona as La Liga has only five match weeks left. As if that weren’t enough, Atletico Madrid eliminated Barcelona in the previous round of the Champions League with a 1-1 away tie and a 1-0 win at home. They were definitely the better side of the two teams.

**Diego Simeone has established himself as one of football’s brightest managers.**

The pressure they put on Barcelona paid off, and they also missed a slew of chances in the game at home. Diego Simeone has by now established himself as one of football’s brightest and most talented managers. What he’s done with Atletico Madrid this

season is perhaps enough for the manager of the year award, but he isn’t settling with that yet. He will bring the pressure he brought to Barcelona to Chelsea as well and look to eliminate them.

Chelsea sits in second place in the English Premier League, only two points behind Liverpool. The two teams will play each other in two weeks in what may be the deciding match of the championship in the league. Chelsea’s Champions League run has been exciting to say the least. After losing 3-1 to Paris Saint-Germain in Paris, they managed to win 2-0 thanks to a late goal from Demba Ba and ended up moving to the semifinals.

Mourinho deployed an extremely offensive roster with three strikers and two more offensive-minded midfielders, and it paid off. However, I’m sure he wasn’t happy that his team ended up bringing the draw to that point. Chelsea, while in general performing at an extremely high level, has slipped every now and then. If they have one of those slips against Atletico Madrid, they will surely be penalized.

One aspect that makes this match interesting is Atletico Madrid’s starting goalie, Thibaut Courtois. Courtois has been on loan at Atletico Madrid from Chelsea since 2011, and he has proven to be one of the most important players on the team. At age 21, he has established himself as one of Europe’s best. However, it seems

like Atletico Madrid will be having a hard playing the star keeper against Chelsea. Apparently, his contract has a clause that states that Atletico Madrid have to pay Chelsea a hefty fee of around 4.5 million euros per game.

**Real Madrid’s loss to Barcelona may have cost them the league, but they are still performing well offensively.**

Atletico Madrid’s president has announced that they cannot pay such a fee, but fortunately for them, they have the support of the Union of European Football Associations. The UEFA has stated that such clauses are against the spirit of the sport and that such a clause will be null and void, paving the way for Courtois to appear against Chelsea. It is still a mystery whether or not Chelsea will actually pursue the fee asked or prevent Courtois from playing against them. Courtois has the potential to be the star of the tie and save Atletico from elimination.

Whether Courtois plays or not, this match will be extremely exciting to watch. Both teams truly play with their hearts and apply major pressure on their opponents. Fans will watch two matches contested until the last whistle with a lot of fighting for the ball in the midfield. It will be hard to call the team to advance, as it may be decided on away goals or maybe even penalty kicks.

## Real Madrid vs. Bayern Munich

These two European giants came here after overcoming fear of elimination. Bayern Munich tied with Manchester United 1-1 in England and won 3-1 in

Munich. However, Manchester United were the better side in the first leg and managed to get the first goal in the second leg. People were not expecting that, as they thought that Pep Guardiola’s side would have cruised to the semifinals. It goes to show that nothing in soccer is easy.


Furthermore, after losing to Nurnberg in the Bundesliga, Bayern Munich suffered a 3-0 loss to Borussia Dortmund this past weekend. The players apparently have a lack of concentration when it comes to the Bundesliga, but Guardiola needs to make sure that his squad is in tiptop mental shape for the Real Madrid match-up.


Real Madrid’s loss to Barcelona may have cost them the league, but they are still performing well offensively. However, after beating Borussia Dortmund 3-0 in the first leg of the quarterfinals, they lost 2-0 in match in Dortmund. If it weren’t for Iker Casillas, perhaps we would have seen


a semifinal match-up of Borussia Dortmund and Bayern Munich. Borussia Dortmund had plenty of chances to equalize and aggregate, and eventually strike a goal that would have seen them past Real Madrid. However, their strikers failed to make chances with Henrikh Mkhitaryan leading the way with a miss on an open goal. Thus, Real Madrid managed to withstand Borussia Dortmund’s onslaught and saw themselves to the semifinals. Their task won’t be easy as they face their third German opponent after eliminating Schalke 04 and Borussia Dortmund.

The last time these two sides came together (in the 2012 semifinals), Real Madrid ended up losing on penalty kicks. They will seek revenge, but it won’t be easy. Ancelotti’s side tends to push higher up with players like Gareth Bale, Di Maria, and Cristiano Ronaldo, while Guardiola always prefers a calmer and more collected approach focused on controlling the ball. It will be a battle between offensive and controlled soccer. Although it will be extremely close, I still see Bayern Munich with a slight edge in the matchup. Dortmund showed that Real Madrid’s defense has key issues that can be exploited, and Guardiola will definitely look to make the most of those issues. Don’t miss out on these two giants battling it out for a spot at the final!














































































































































































































9:12 a.m., Charles River

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**Jeffrey M. Sperling '15 volleys the ball during a match against Clark University last Saturday.** The men's team defeated Clark 6-3 in its last home event of the season.